

# ENTERPRISEDX®

- A cloud-based SaaS EEM that gathers, houses & interprets all of an enterprise's energy & facility data in a clear, concise, actionable way to **reduce energy use and save money.**



Cloud-based EEM  
CalIT2 Workshop

# EDX Explorer

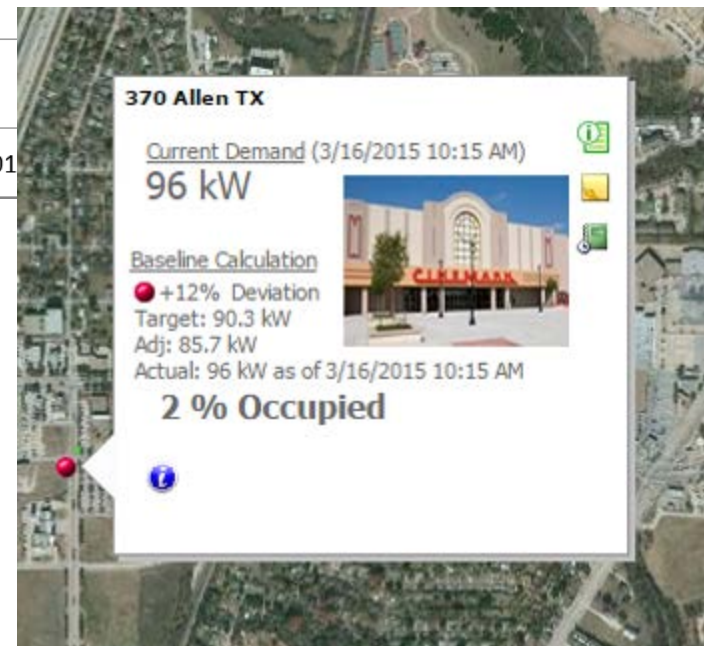
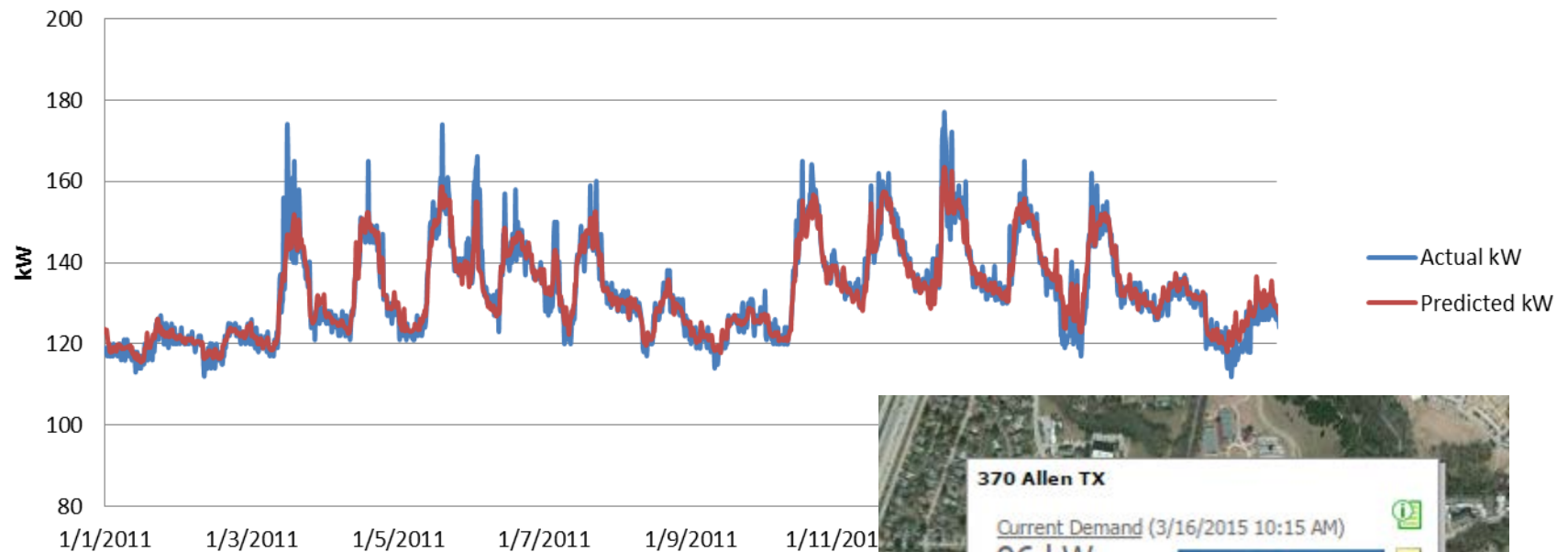
A comprehensive GIS-based view of energy use and deviation by location.



## Macro-Level Analysis

Robust energy models enable contextual analysis for real-time diagnostics, load predictions and quantification of performance.

### Predicted vs Actual kW Using NN Model



# EDX Executive Dashboard

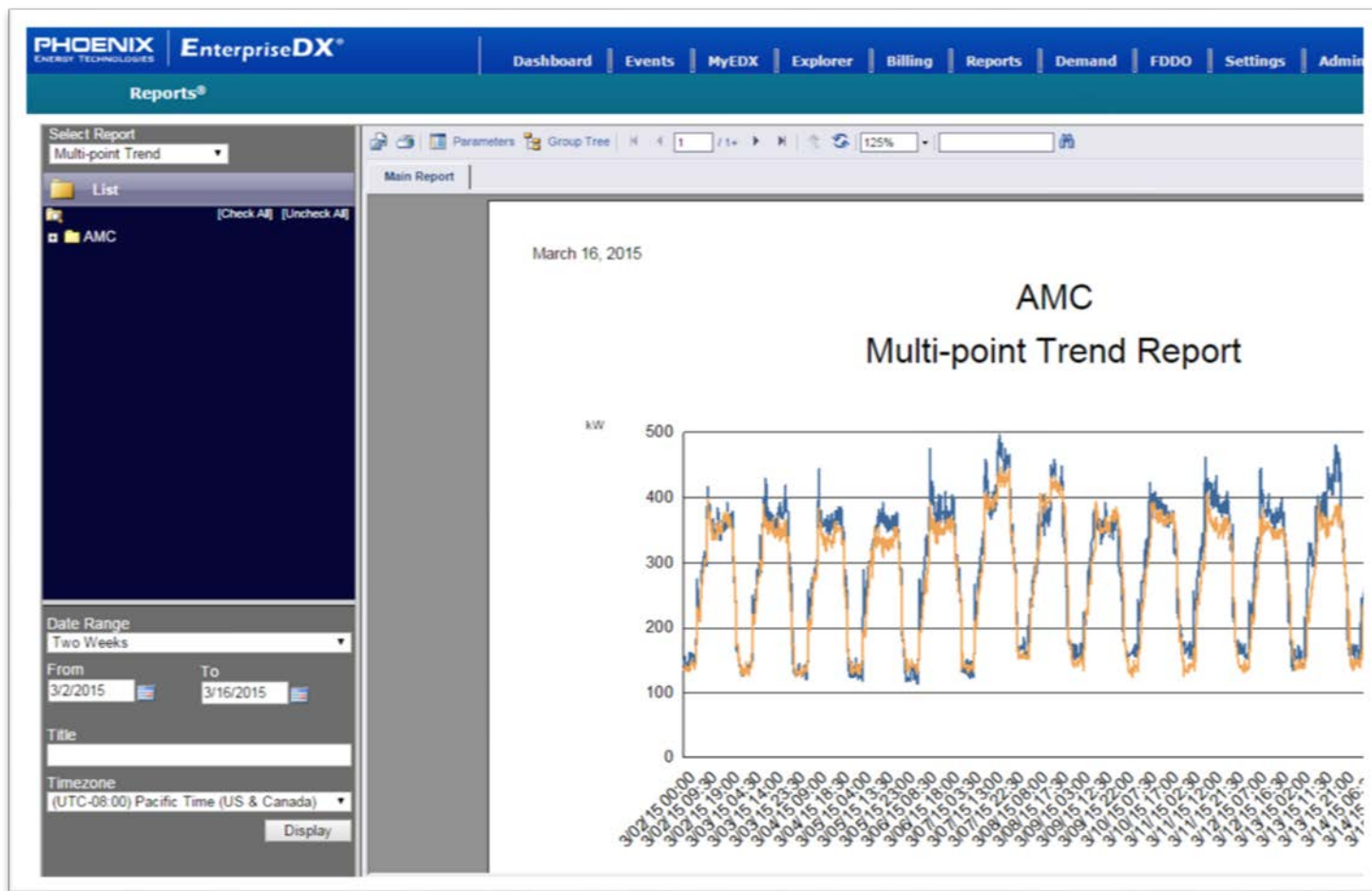
A view of energy consumption and budget performance by location.





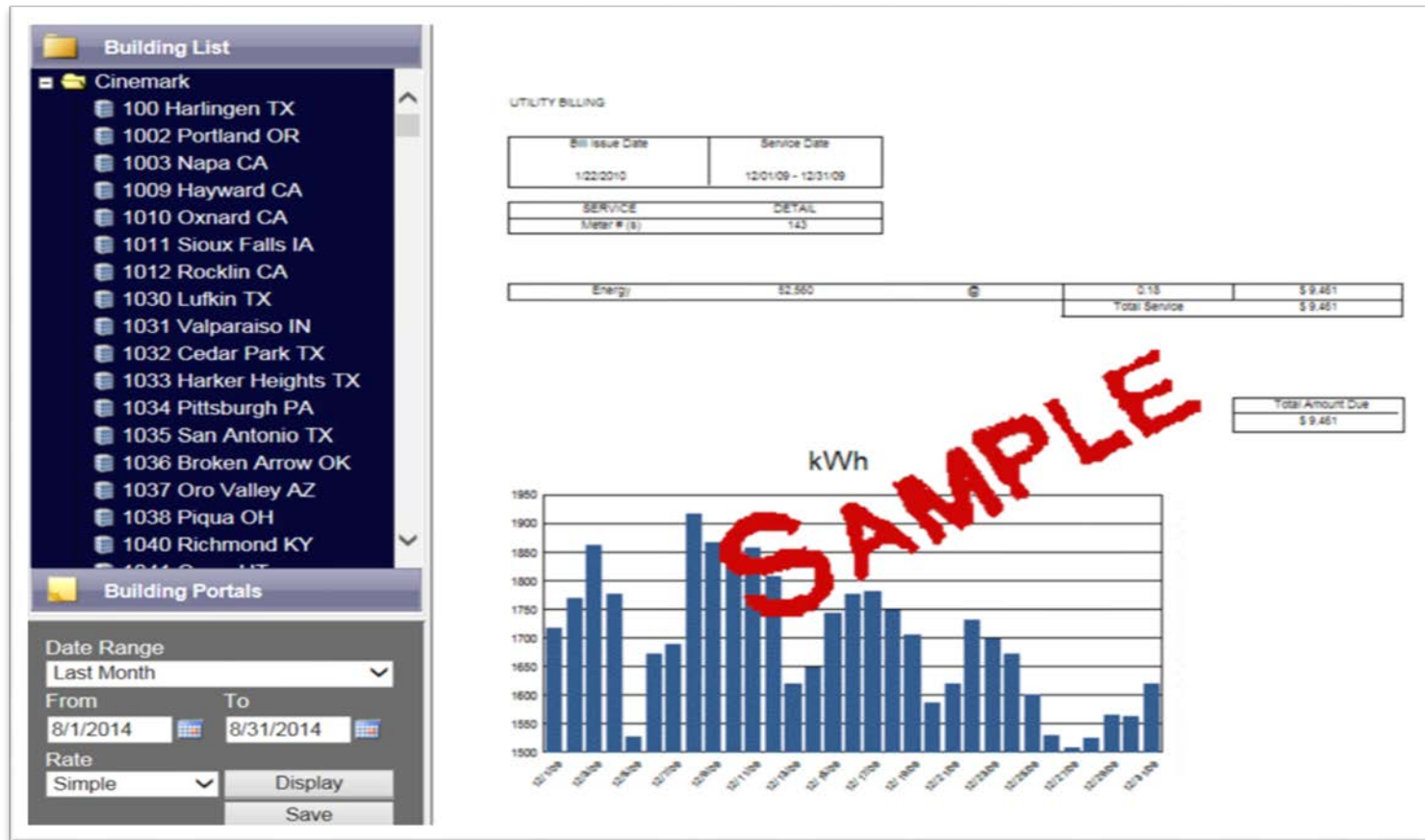
# EDX Reports

## Standard Energy Reports



# Billing Module

A facsimile bill to support tenant sub billing for multi-tenancy locations.



# Deployable across several platforms



# EDX Fault Diagnostics®

Our fault detection and diagnostic (FDDO) algorithms find underlying issues in building operations and maintenance.

EDX®

1: Select Report Topic(s)

☐ Economizer Free Cooling Loss Diagnostic  
☐ Economizer OSA High Temp Diagnostic  
☐ Fan Cycle Diagnostic  
☐ Fan Isolation Damper Diagnostic  
☐ HVAC Efficiency Diagnostic  
☐ Lighting Diagnostic  
☐ Load Balancing Diagnostic  
☐ Occupancy Cycle Diagnostic

2: Select Location(s)

☒ Select All  
☒ 259 Merriam KS  
☒ 357 Tarentum PA  
☒ 231 Plano TX  
☒ 370 Allen TX  
☒ 236 El Paso TX  
☒ 276 Woodridge IL  
☒ 257 Macedonia OH

Save Locations

Load Saved Locations

3: Select Date Range

Start Date

9/29/2014


15

End Date

9/29/2014

15

FDDO Anomaly Entry Reports



**Economizer Free Cooling Loss Diagnostic** - Sequence of Operation: The economizer sequence for IPAK RTU-1 is not operating properly when the Outside Air Temperature is less than 55 DEG F. The economizer has been enabled at least a total of 8 hour(s) during the period scanned. The consequence translates to \$8,361.60 per month, \$100,339.20 per year. This is why the economizer cycle when appropriate.

**PHOENIX**  
ENERGY TECHNOLOGIES

**Economizer Free Cooling Loss Diagnostic**

Anomaly Code:

Economizer Free Cooling Loss

Location:

Puente 20 (249)

System:

IPAK RTU-1

Device:

Outside Air Damper

Scan:

10/2/2013 12:00:00AM

to

10/11/2013 12:00:00AM

Recorded:

10/10/2013 9:14:00PM

Anomaly Period:

10/6/2013 9:15:00AM

to

10/6/2013 5:15:00PM

Consequence:

Energy Waste

Detail:

The economizer sequence for IPAK RTU-1 is not operating properly when the Outside Air Temperature is less than 55 DEG F. The economizer has been enabled at least a total of 8 hour(s) during the period scanned. The consequence translates to \$8,361.60 per month, \$100,339.20 per year. This is why the economizer cycle when appropriate.

Cause #1:

Control parameters (set points or modes) are set to defeat the economizer cycle when appropriate.

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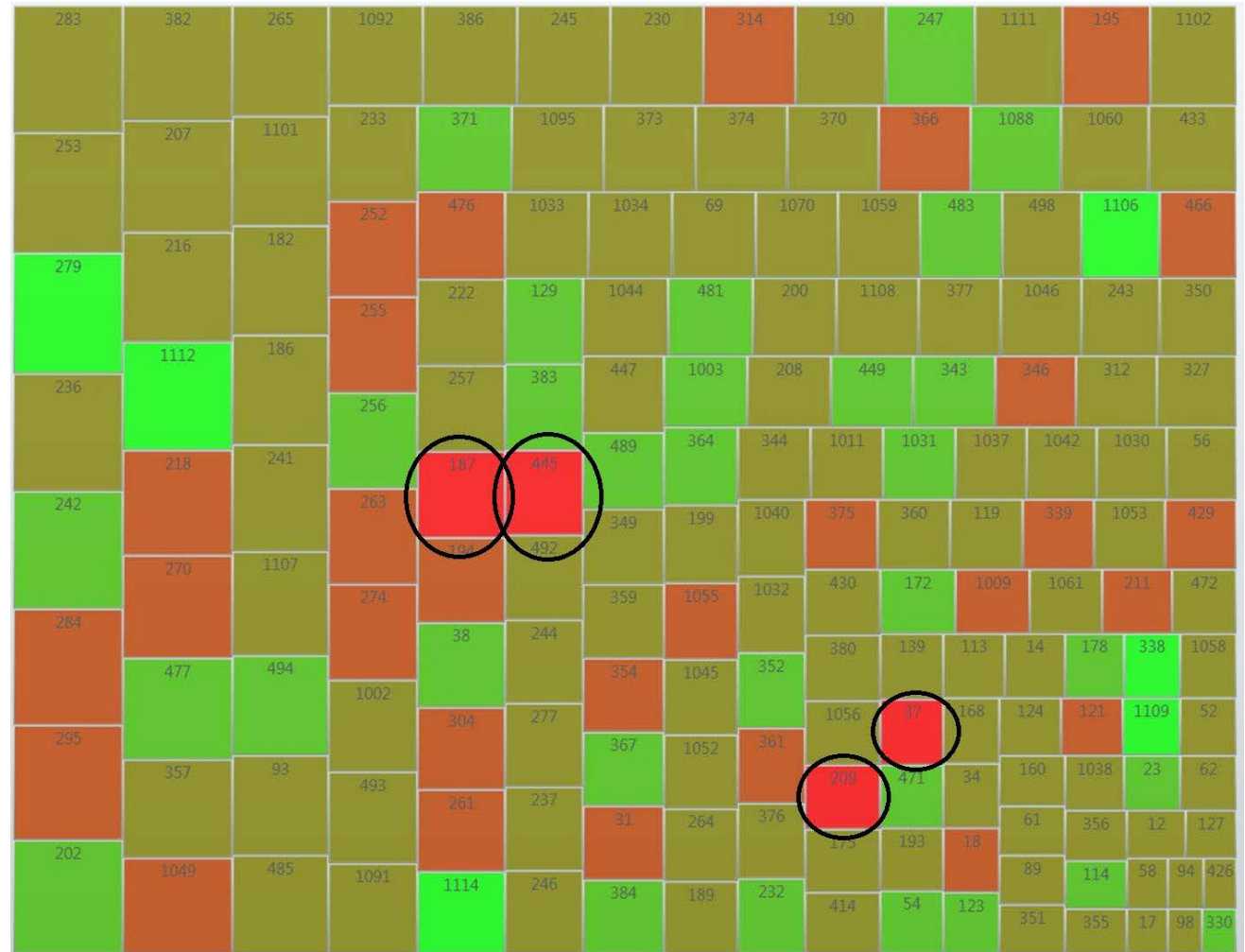
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# THIS is the building management view of the future!

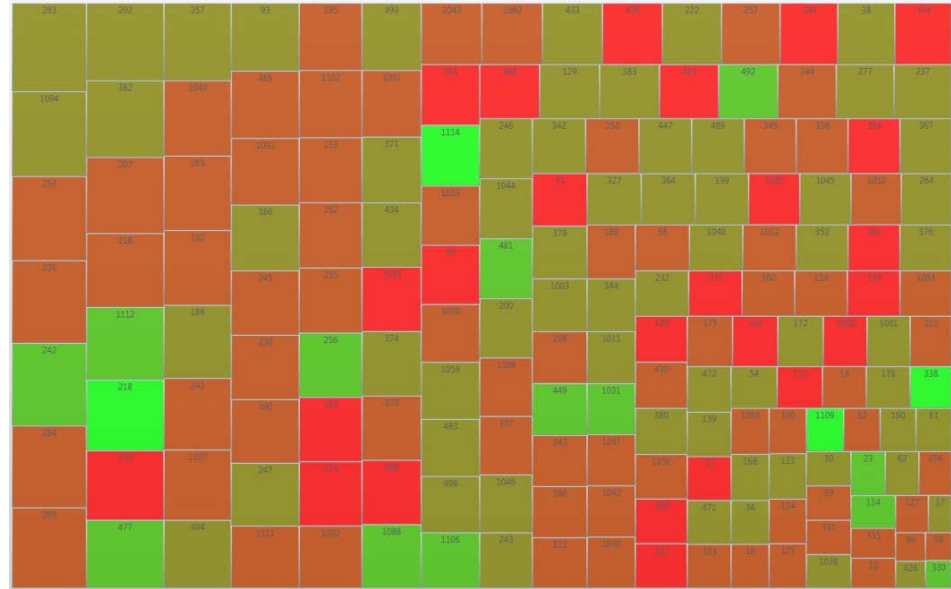
- 170 theaters
- 8-10 avg. Zones
- 96 x 15 mins.
- 7days

**17MM data points!**

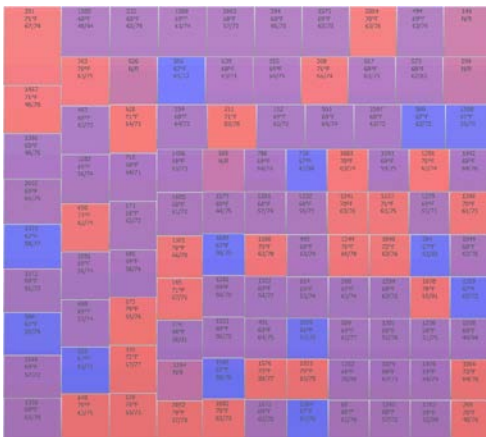


# EnterpriseDX provides advanced data visualizations. Energy Intensity heat and temperature comfort maps.

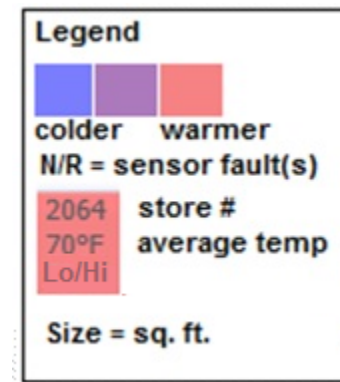
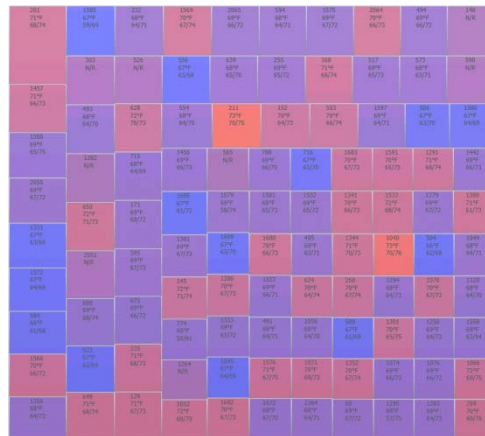
“Big data” is all about making sense of thousands of data points; at a glance”



All zones (average)



Sales Floor



**1,157 zone  
temps** (average  
8-9 per store)  
96 – 15 minute  
intervals x 7  
days = **698, 880  
data values** in  
dataset.